

This Listing of Claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An electrode of a secondary battery comprising a porous film on a carbon electrode ~~for a secondary battery~~, wherein the porous film consists essentially of a metal or a metal alloy and the carbon electrode is a ~~solid~~ sheet of a composite material comprising a carbon component.

2. (Previously Amended) A method for fabricating an electrode comprising:
positioning a sheet of carbon material within a vacuum chamber;
coating a porous metal film on a surface of the sheet of carbon material; and
stabilizing the porous metal film under a vacuum of below 10^{-1} torr at a temperature of $20^{\circ}\text{C} \sim 100^{\circ}\text{C}$ for 1 ~24 hours.

3. (Previously Amended) The method of claim 2, wherein the porous metal film is coated by a process selected from the group consisting of a heating deposition process, an electron beam deposition process, an ion line deposition process, a sputtering deposition process, or a laser ablation process, and a combination thereof.

4. (Previously Amended) The method of claim 2, wherein the porous metal film comprises a metal or a metal alloy selected from the group consisting of lithium, aluminum, tin, bismuth, antimony, copper, titanium, vanadium, chrome, manganese, iron, cobalt, zinc, molybdenum, tungsten, silver, gold, platinum, ruthenium, iridium, indium and a combination thereof.

5. (Canceled)

6. (Previously Amended) The method of claim 2, wherein the carbon material is comprises an active material selected from the group consisting of graphite, coke, hard carbon and a combination thereof.

7. (Currently Amended) A lithium-ion secondary battery comprising ~~the an~~ an electrode of the secondary battery of claim 1 comprising a porous film on a carbon electrode, wherein the porous film consists essentially of a metal or a metal alloy, and an cathode comprising a cathode material selected from the group consisting of LiCoO_2 , LiMn_2O_4 , LiNiO_2 , V_6O_{13} and V_2O_5 .

8. (Original) The lithium-ion secondary battery of claim 7, wherein the porous metal film comprises a metal or a metal alloy selected from the group consisting of lithium, aluminum, tin, bismuth, antimony, copper, titanium, vanadium, chrome, manganese, iron, cobalt, zinc, molybdenum, tungsten, silver, gold, platinum, ruthenium, iridium, indium and a combination thereof.

9. (Currently Amended) A lithium-ion secondary battery comprising ~~the an~~ an electrode of the secondary battery of claim 1 comprising a porous film on a carbon electrode, wherein the porous film consists essentially of a metal or a metal alloy.

10. (Currently Amended) An electrode ~~for~~ of a secondary battery comprising a porous film on a solid sheet of a composite material comprising a carbon material component, wherein the porous film comprises a metal or a metal alloy.

11. (Currently Amended) A lithium-ion secondary battery comprising ~~the an~~ an electrode of claim 10 of the secondary battery comprising a porous film on a carbon electrode, wherein the porous film comprises a metal or a metal alloy.